

(19) World Intellectual Property Organization  
International Bureau(43) International Publication Date  
20 November 2003 (20.11.2003)

PCT

(10) International Publication Number  
WO 03/095981 A1(51) International Patent Classification<sup>7</sup>: G01N 1/00, 25/00

(21) International Application Number: PCT/US03/15062

(22) International Filing Date: 13 May 2003 (13.05.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/379,911 13 May 2002 (13.05.2002) US

(71) Applicant (for all designated States except US): HORIZON INSTRUMENT GROUP, L.L.C. [US/US]; Suite C, 5525 S. Sherwood Forest Boulevard, Baton Rouge, LA 70816 (US).

(72) Inventor; and  
(75) Inventor/Applicant (for US only): DAVID, J., Fritze [US/US]; 9922 Chateau Drive, Baton Rouge, LA 70815 (US).

(74) Agents: PRIMEAUX, Russel, O. et al.; P.O. Box 3513, Baton Rouge, LA 70821-3513 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

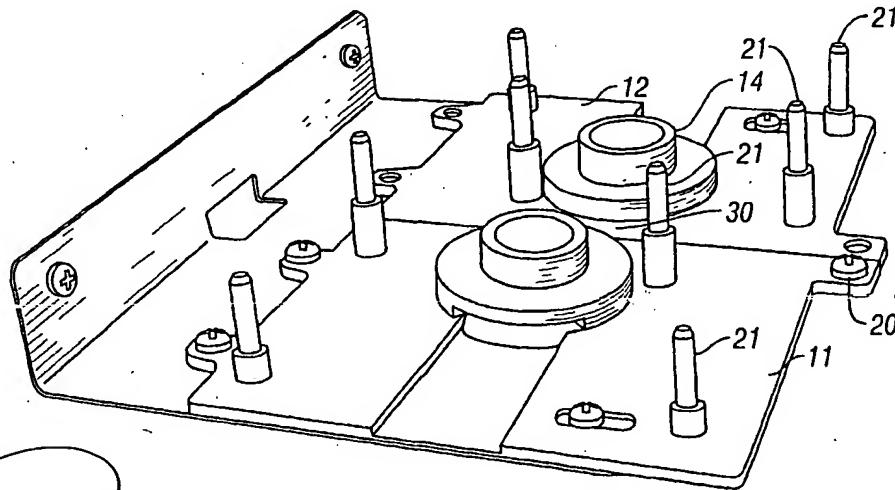
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(iii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU,

[Continued on next page]

(54) Title: AUTO INJECTOR ADAPTER FOR GAS CHROMATOGRAPH



WO 03/095981 A1

(57) Abstract: A method and apparatus is disclosed for adapting auto injector devices to properly operate in conjunction with gas chromatographs that would previously have been incompatible. The invention consists of metal plates (10, 11, 12, 13) with circular apertures designed for placement over the injection port of the gas chromatograph. The plates are designed to align the chosen auto injector with the injection ports (30) and fix it in place. Also disclosed is the use of firmware to enable proper communication between the injector, the chromatograph, and the analysis and control software.